

**IN THE ABSTRACT:**

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## **ABSTRACT**

The invention relates to a control method and a control system for a motor. The control method and the control system of the invention transfer the motor dynamic equations of the synchronous d-q frame into a motor parameter (for example, the leakage inductance) and the equivalent counter electromotive force. Then the required control signals for the motor current control can be obtained. The control method of the invention not only preserves the merit of constant switching frequency of the convention PI-PWM control system, but also can eliminate the motor current phase-lag problem of the invention PI-PWM control system. Also, the control method of the invention will have the following characteristics and economic advantages such as high accuracy, fast response, low cost and robustness, etc.